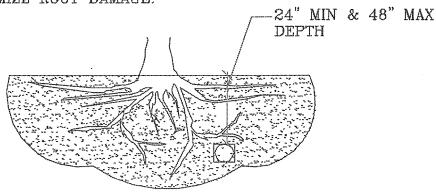


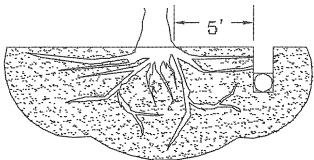
NOTE
WRAP TREE TRUNK WITH 2"X4" STUDS AND ROPE OR BAND IN PLACE
AS NEEDED TO PROTECT TREES IN WORK AREAS.

TREES THAT ARE MARKED TO BE PRESERVED ON A SITE PLAN AND FOR WHICH UTILITIES MUST PASS TROUGH THEIR ROOT PROTECTION ZONES MAY REQUIRE BOREING AS OPPOSED TO OPEN TRENCHES. THE DECISION TO BORE WILL BE DETERMINED ON A CASE BY CASE BASIS BY THE CITY.

BORES SHALL BE DUG THROUGH THE ROOT PROTECTION ZONE IN ORDER TO MINIMIZE ROOT DAMAGE.



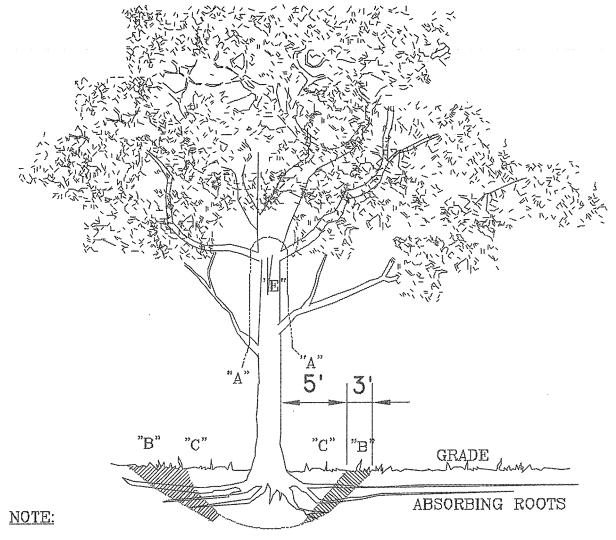
BORE TO MINIMIZE ROOT DAMAGE (TOP) AS OPPOSED TO SURFACE-DUG TRENCHES IN ROOT PROTECTION ZONE WHEN THE 5' MINIMUM DISTANCE FROM TRUNK CAN NOT BE ACHIEVED.



OPEN TRENCHING MAY BE USED IF EXPOSED TREE ROOTS DO NOT EXCEED 3" OR ROOTS CAN BE BENT BACK.

FENERAL NUTES

- RECEIVE LEVEL 1 PROTECTION AS PER ITEM No. 801. (TREE AND LANDSCAPE PROTECTION) AND AS DETAILED IN 1.1.2. 1. ALL PROTECTED SIZE TREES AFFECTED BY CONSTRUCTION SHALL HAVE THE LIMBS AND ROOTS TRIMMED AND PRUNED TO ITEM No. 802. (TREE PRUNING, SOIL AMENDING AND FERTILIZATION), UNLESS SPECIFIED TREES SHALL
- ALL TREES SHALL REMAIN UNLESS NOTED ON THE CITY APPROVED PLANS
- 3. NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND PROTECTION MEASURES HAVE NOT BEEN COMPLETED AND APPROVED BY THE CITY ARBORIST OFFICE.
- TREE PROTECTION FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION
- CITY INSPECTOR IF ROOTS LARGER THAN THREE INCHES (3") WITHIN THE FIVE FOOT (5") ROOT PROTECTION ZONE NEED TO BE EXISTING TREES. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES (3") IN DIAMETER WHEN EXCAVATING NEAR ISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION, THE CONTRACTOR SHALL CONTACT THE
- CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A TEN INCH (10") DIAMETER TREE WOULD HAVE A TEN FOOT (10") RADIUS 6. THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN MINUTES TO PREVENT OAK WILT. WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED, THE REQUIRED RADIUS LENGTH IS ONE FOOT (1') OAK WOUNDS SHALL BE PAINTED OVER, WITHIN TWENTY (20)
- NO DISTURBANCE SHALL OCCUR CLOSER TO THE TRUNK THAN HALF THE ROOT PROTECTION ZONE AREA
- Ċ TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND
- TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED
- EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH
- 11. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST OFFICE PRIOR TO ITS REMOVAL



A" REMOVE BULKY TREE PARTS "SHRED" AND/OR HAUL SEPARATELY.

"B" BEGIN EXCAVATION APPROX. 8' FROM THE TRUNK — CUT THRU ANCHOR ROOTS AT AN ANGLE — 3' TO 4' DEEP

"C" USING TREE TRUNK AS A LEVER PUSH AT POINT "E" TO REMOVE TREE BOLE AND LARGE FEEDER ROOTS (4" TO 10" IN DIAM.)

"D" BACKFILL HOLE AND CLEAN UP.



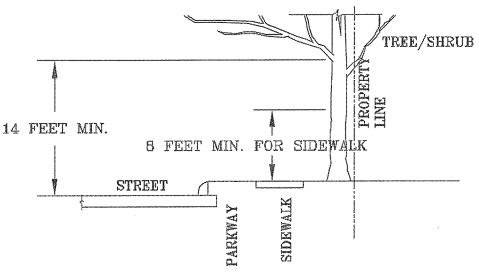


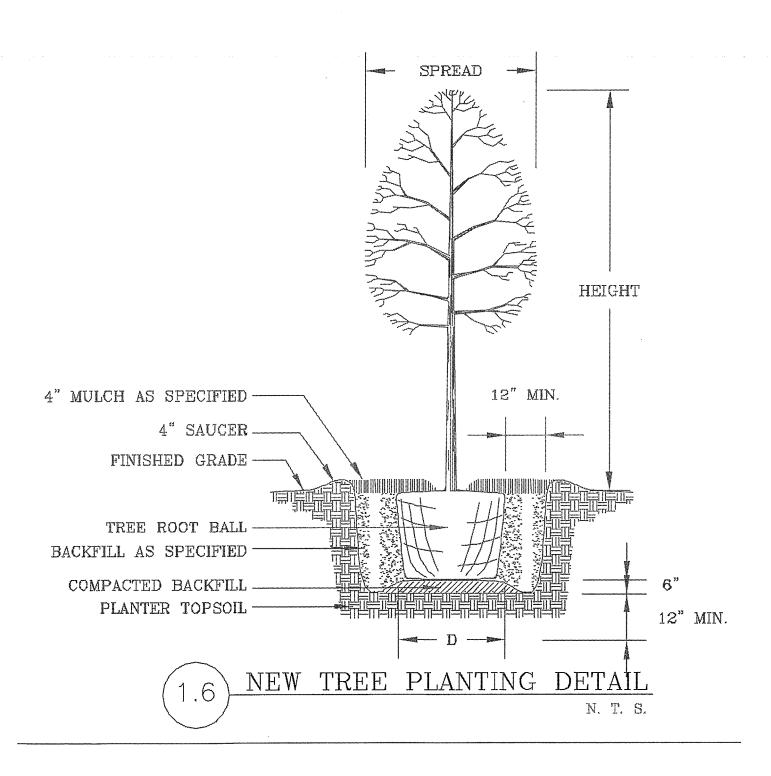
FIGURE No.2:

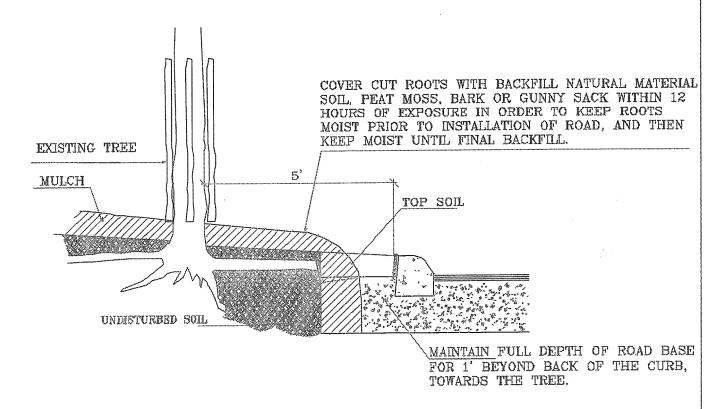
A MINIMUM BRANCH CLEARANCE OF 14 FEET ABOVE STREET ELEVATION MUST BE MAINTAINED FROM THE PROPERTY LINE TO THE CURB LINE AS PRESCRIBED BY PROJECT MANAGER.



BRANCH CLEARANCE DETAIL

N. T. S.



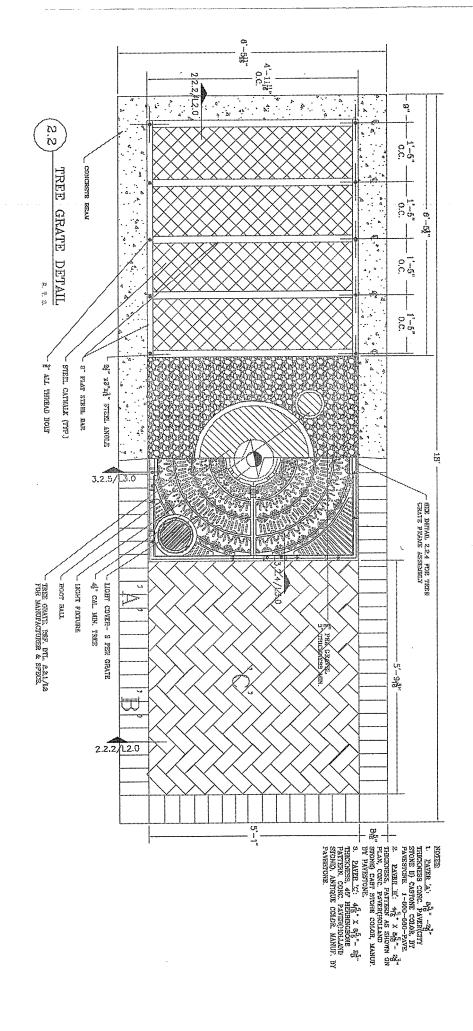


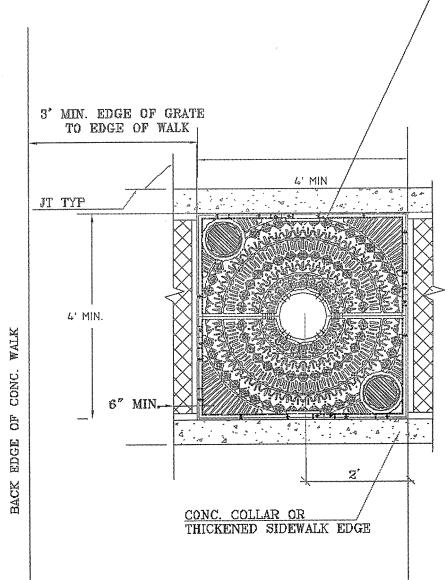
NOTE: ROOT ZONE OUTSIDE OF TREE PROTECTION
BARRIER SHOULD BE COVERED AT ALL TIMES WITH 8"
OF BARK MULCH THROUGHOUT THE CONSTRUCTION
PHASE, EXISTING TREES SHOULD BE DEEP WATERED
AS SPECIFIED IN ITEM 801 & 802

EXPOSED ROOT PROTECTION DETAIL

N. T. S.

NOTE:
FOR THOSE TREES THAT DO NOT
MEET THE TREE PRESERVATION
ORDINANCE REQUIREMENTS
PRESERVATION SHALL BE
DETERMINED ON A CASE BY CASE
BASIS





TREE GRATE, NEENAH FOUNDRY, MODEL R-8754. 1-800-558-5075

DIMENSIONAL REQUIREMENTS: - 25 SQ. FT MIN. TREE GRATE SIZE (5'X5' & 4'X6' TYP).

- 2'-0" MIN. REQUIRED BETWEEN EXISTING TREE CENTER LINE AND FACE OF CURB.

- 2'-0" MIN. REQUIRED BETWEEN EXISTING TREE CENTER LINE & CONC. PAVEMENT (SIDE WALK OR CON. COLLAR).

-4'-0" MIN. CONC. WALKING SURFACE.

-1'-0" MIN. CENTER GRATE OPENING (1'-6" RECOMMENDED).

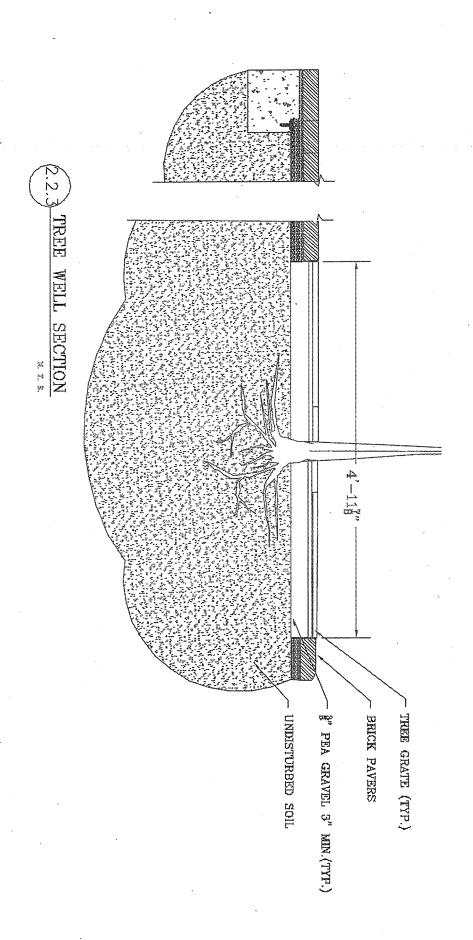
NOTE: INSTALLATIONS REQUIRING LESS THAN STANDARD MIN. CLEARANCES SHALL BE ALLOWED ONLY WITH SPECIFIC APPROVAL BY THE ENGINEER.

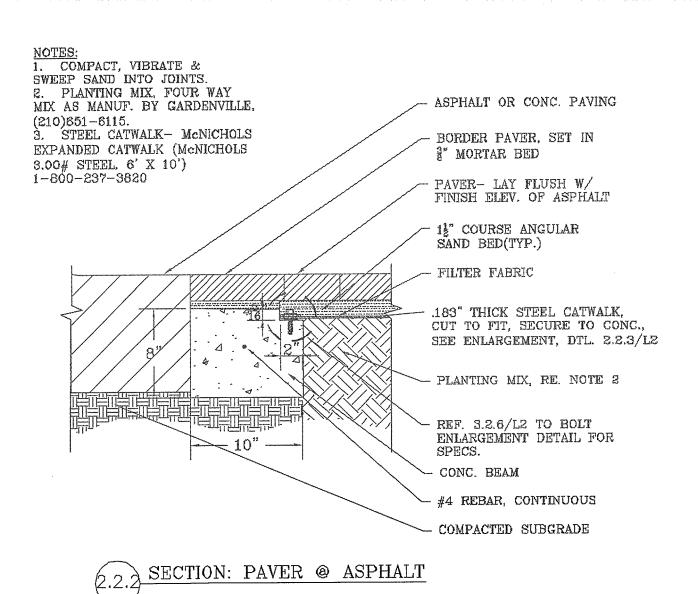
NOTE: SEE SHEET 2 DETAIL 4 FOR SUBSURFACE TREATMENT OF WALK.

NOTE: FOR THOSE TREES THAT DO NOT MEET THE TREE PRESERVATION ORDINANCE REQUIREMENTS PRESERVATION SHALL BE DETERMINED ON A CASE BY CASE BASIS

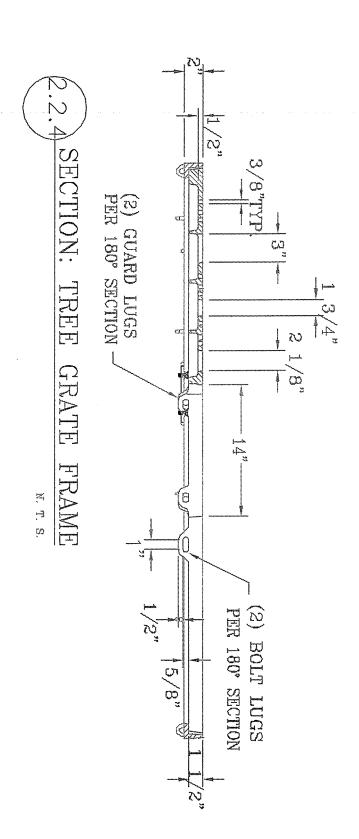
TREE GRATE PLAN VIEW

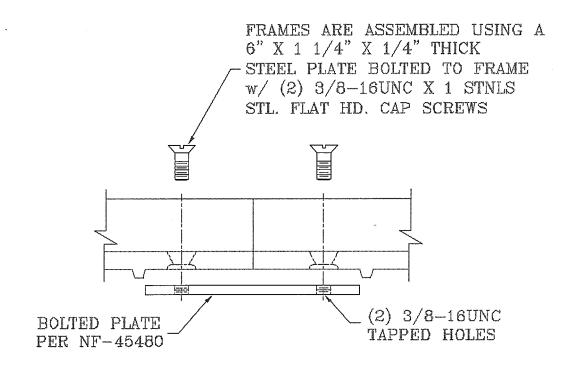
N. T. S.





N. T. 8.



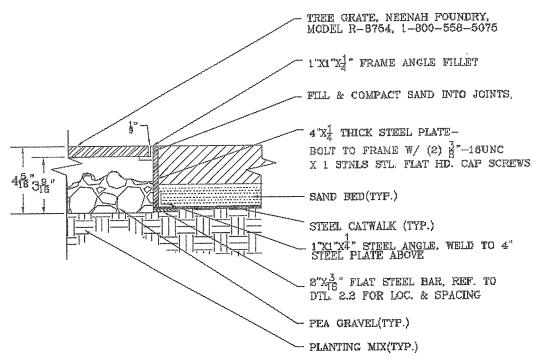


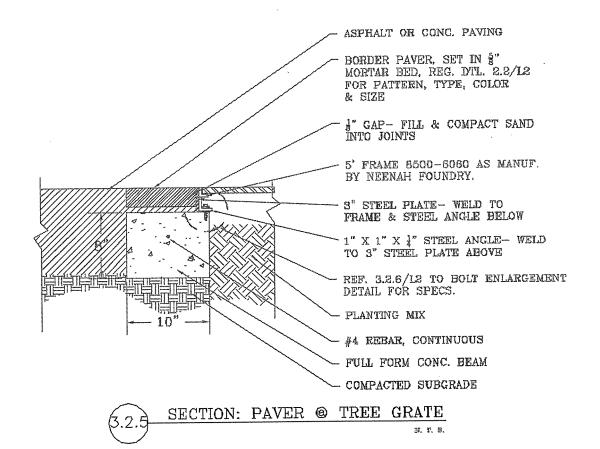
SECTION: GRATE FRAME ASSEMBLY

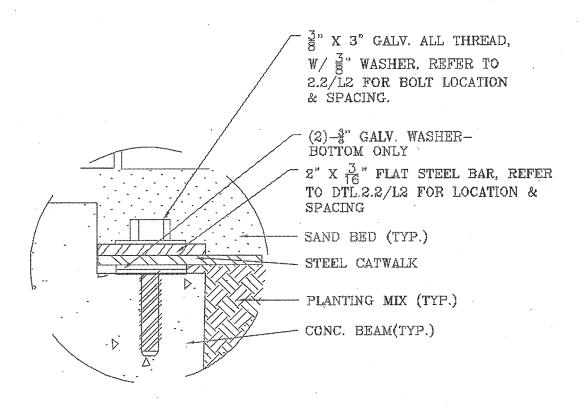
N. T. S.

NOTES:

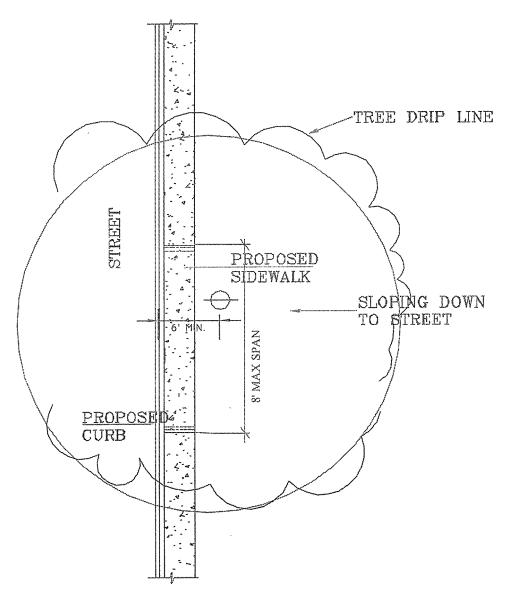
- 1. 5' FRAME 8500-8080 AS MANUFACTURED BY NEENAH FOUNDRY.
- 2. REMOVE CROSSBAR FROM FRAME BEFORE INSTALLATION.





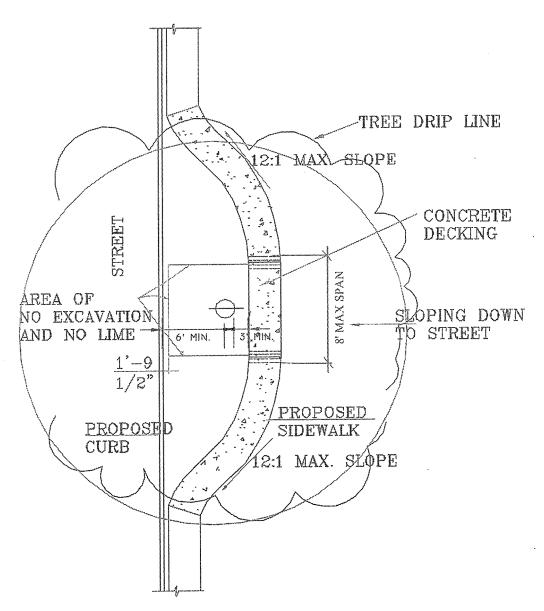


AREA BENEATH PROPOSED SIDEWALKS IN THE DRIP LINE OF AN EXISTING TREE SHALL RECEIVE TREE VENTING AS PER OPTIONS ON THESE SHEETS.



3.3 ELEVATED WALKWAY
N. T. S.

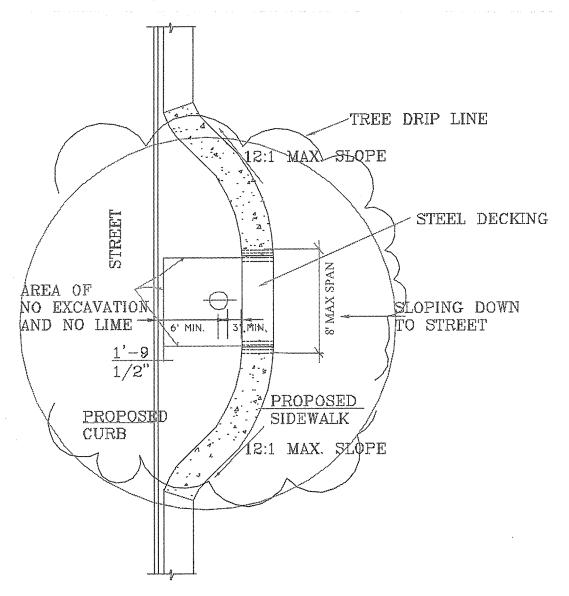
AREA BENEATH PROPOSED SIDEWALKS IN THE DRIP LINE OF AN EXISTING TREE SHALL RECEIVE TREE VENTING AS PER OPTIONS ON THESE SHEETS.



ELEVATED WALKWAY

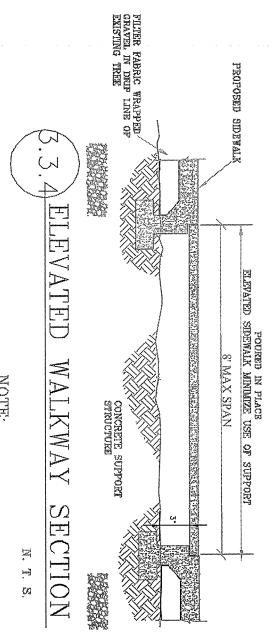
CONCRETE DECKING N. T. S.

AREA BENEATH PROPOSED SIDEWALKS IN THE DRIP LINE OF AN EXISTING TREE SHALL RECEIVE TREE VENTING AS PER OPTIONS ON THESE SHEETS.

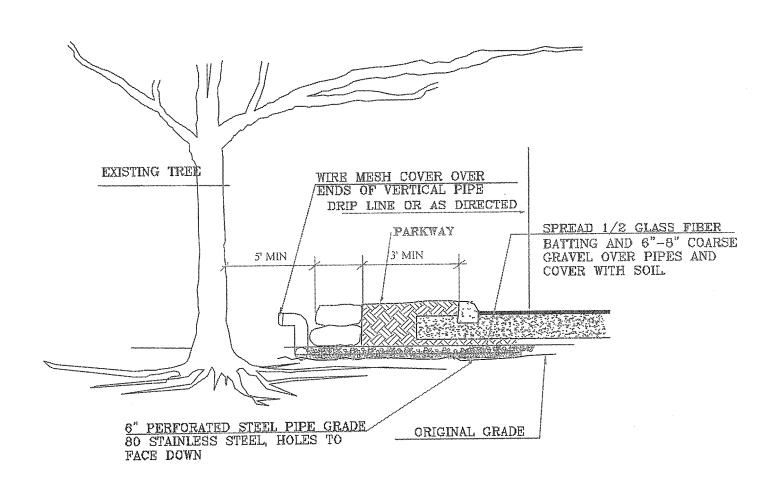


3.3.2 ELEVATED WALKWAY /STEEL DECKING N. T. S.

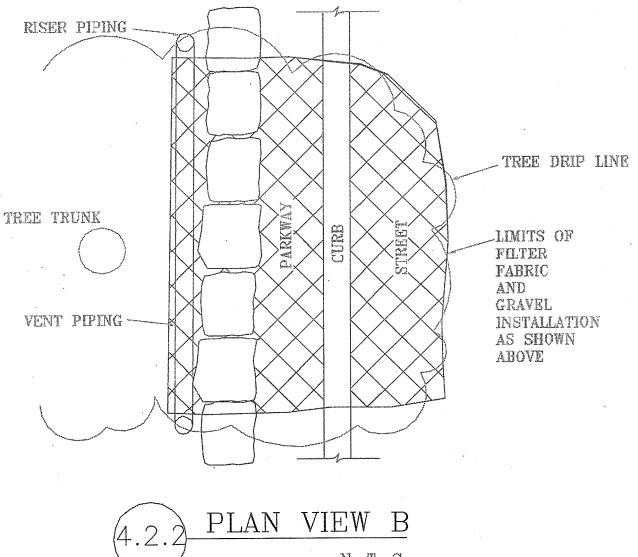
NOTE: DESIGN STEEL PLATE SUPPORT ACCORDING TO SPECIFIED WIDTH AND LENGTH.



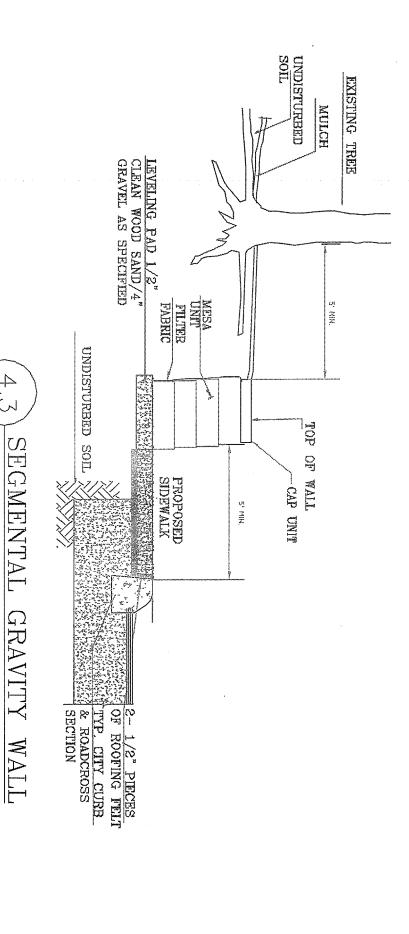
NOTE:
FOR THOSE TREES THAT DO NOT
MEET THE TREE PRESERVATION
ORDINANCE REQUIREMENTS
PRESERVATION SHALL BE
DETERMINED ON A CASE BY CASE



4.2 TREE AERATION DETAIL B



N. T. S.

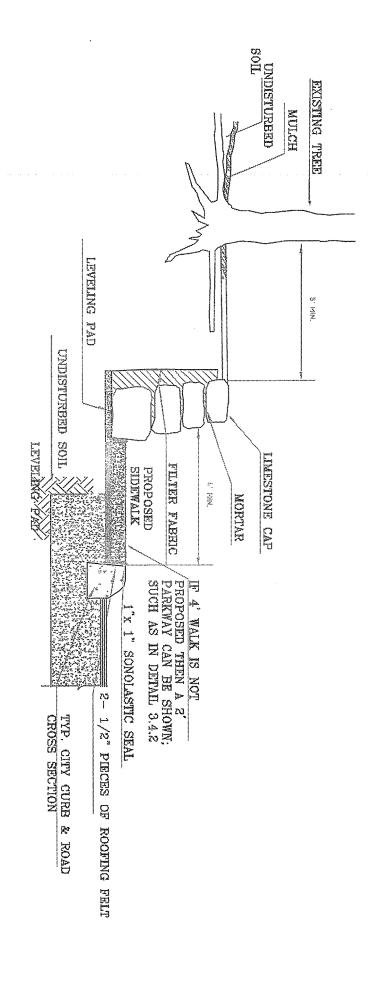


NOTH-

ADJACENT TO CURB

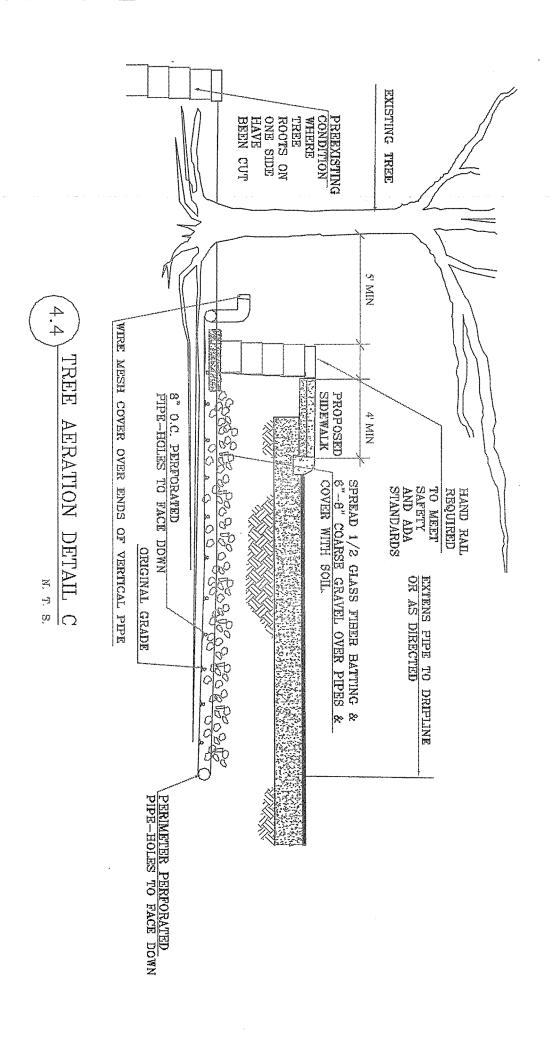
N. T. S.

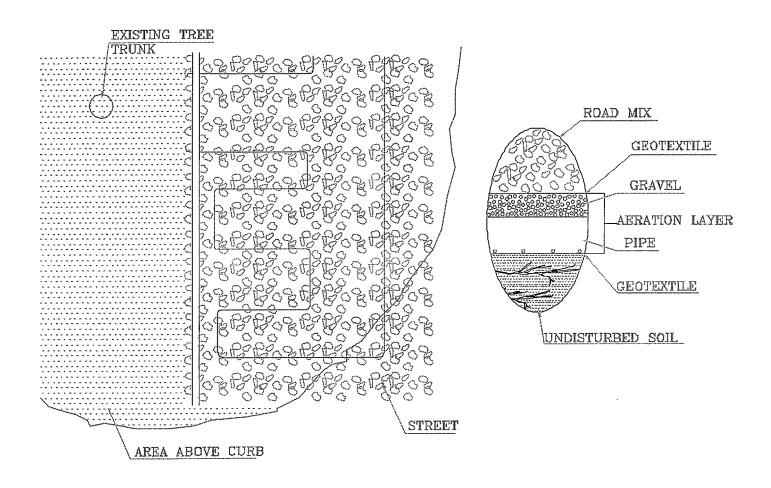
THIS TYPE OF WALL CAN BE USED ON D'THER APPLICATIONS
TREES CANNOT BE PRESERVED IF THEY ARE CLOSER THAN 5 FEET
TO THE WALL



ADJACENT TO CURB LIMESTONE BOULDER GRAVITY WALL Z T

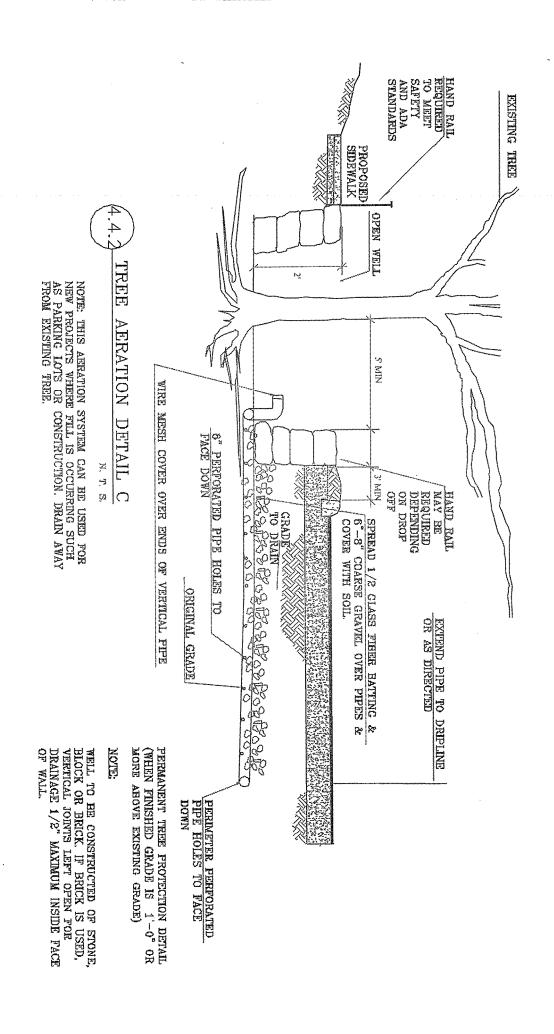
NOTETHIS TYPE OF WALL CAN BE USED ON OTHER APPLICATIONS
TREES CANNOT BE PRESERVED IF THEY ARE CLOSER THAN 5 FEET
TO THE WALL

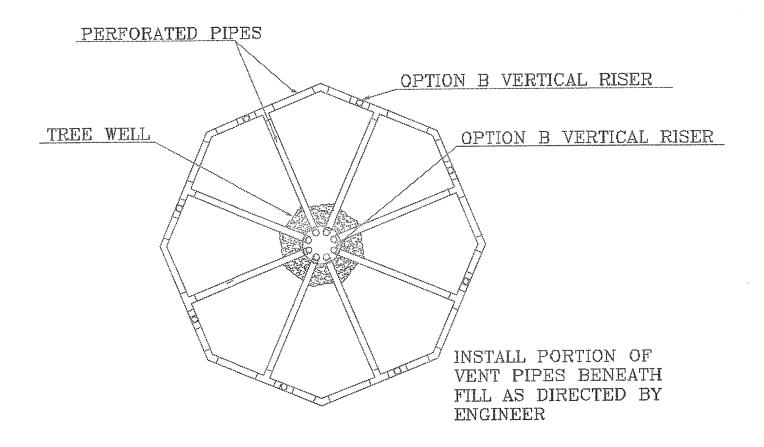




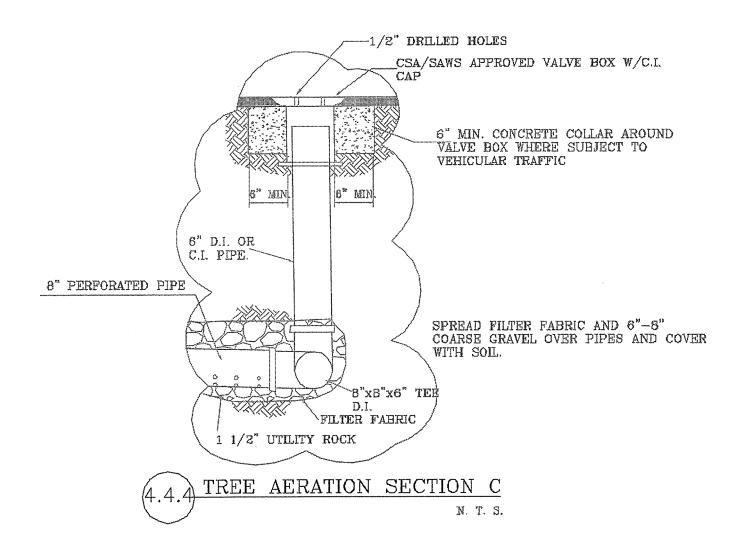
TREE AERATION PLAN VIEW D

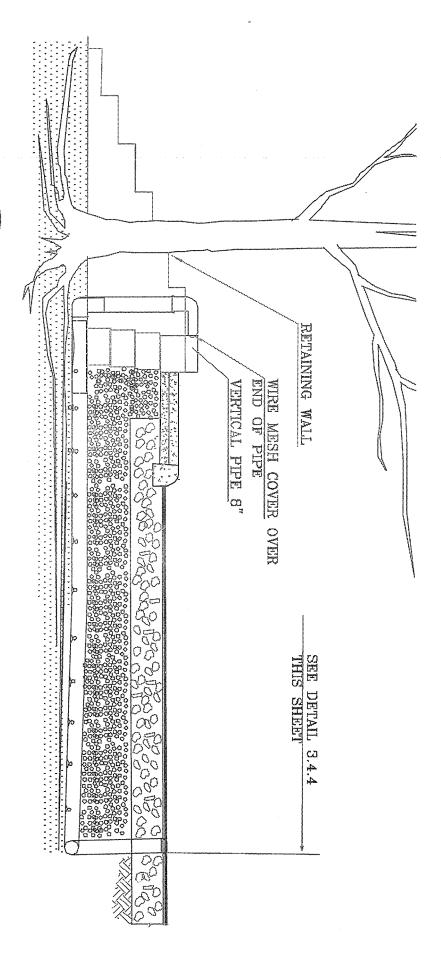
N. T. S.







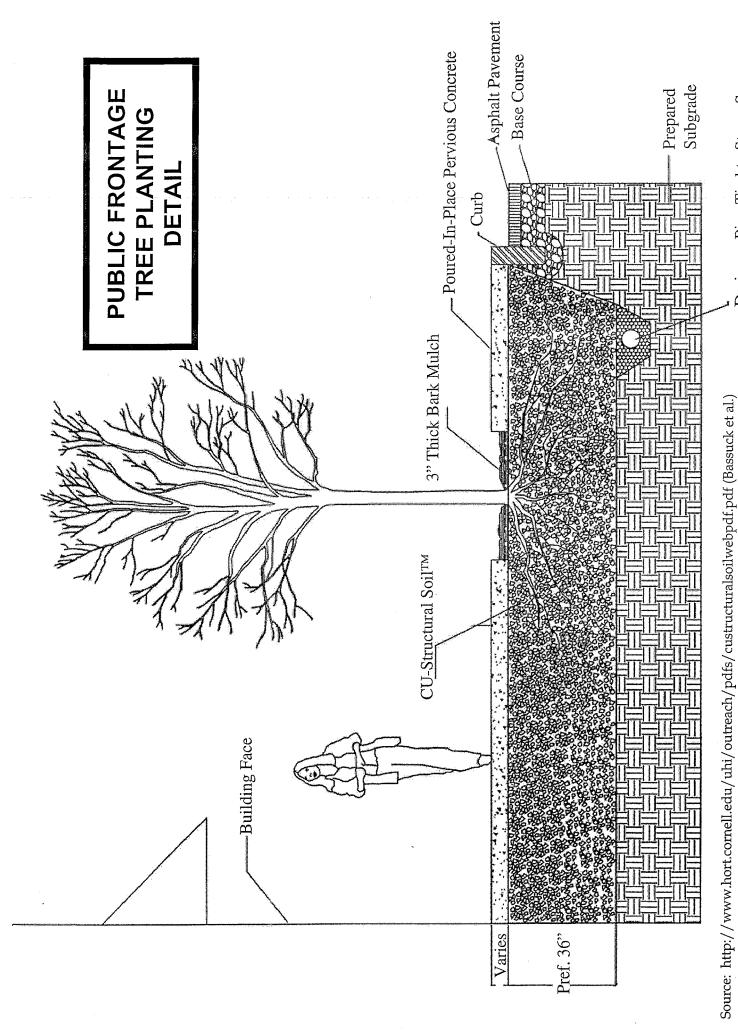




.4.) TREE AERATION DETAIL D

NOTE: THIS AERATION SYSTEM CAN BE USED FOR NEW PROJECTS WHERE FILL IS OCCURRING SUCH AS PARKING LOTS OR ROADWAY CONSTRUCTION.

DRAIN AWAY FROM EXISTING TREE.



Drainage Pipe Tied to Storm Sewer